



10/05/04

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Atty. Dkt. No. 054821-0865

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Ingo Koch

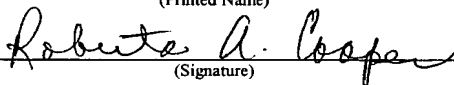
Title: METHOD FOR DETERMINING  
THE AMOUNT OF CHARGE  
WHICH CAN BE DRAWN ON A  
STORAGE BATTERY, AND  
MONITORING DEVICE FOR A  
STORAGE BATTERY

Appl. No.: 10/649,960

Filing Date: 08/26/2003

Examiner: To be determined

Art Unit: 2838

<b>CERTIFICATE OF EXPRESS MAILING</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
EV 459265045 US	10/04/04
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Roberta A. Cooper	
(Printed Name)	
	
(Signature)	

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to OG Notice dated August 5, 2003,

*Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

The relevance of the foreign-language documents is described in the English-language abstracts for the documents provided herewith except for DE 69900638 and DE 68924169. An English translation of the foreign-language documents is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609).

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a

check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1447.

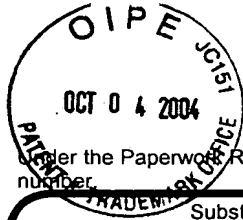
Respectfully submitted,

Date 10/4/2004

By 

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MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Date Submitted: October 4, 2004

(use as many sheets as necessary)

Sheet 1 of 6

**Complete if Known**

Application Number	10/649,960
Filing Date	8/26/2003
First Named Inventor	Ingo Koch
Group Art Unit	2838
Examiner Name	To be determined
Attorney Docket Number	054821-0865

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	2004/0021468	A1	Dougherty et al.	02-05-2004	
	A2	2003/0236656	A1	Dougherty	12-25-2003	
	A3	6,653,818	B2	Laig-Horstebroek et al.	11-25-2003	
	A4	6,608,482	B2	Sakai et al.	08-19-2003	
	A5	2003/0142228	A1	Flach et al.	07-31-2003	
	A6	6,600,293	B2	Kikuchi	07-29-2003	
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	A8	2003/0082440	A1	Mrotek et al.	05-01-2003	
	A9	6,556,019	B2	Bertness	04-29-2003	
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	A11	2003/0047366	A1	Andrew et al.	03-13-2003	
	A12	6,522,148	B2	Ochiai, et al.	02-18-2003	
	A13	6,515,456	B1	Mixon	02-04-2003	
	A14	6,515,452	B2	Choo	02-04-2003	
	A15	6,507,194	B2	Suzuki	01-14-2003	
	A16	6,495,990	B2	Champlin	12-17-2002	
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Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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			Ingo Koch	
			Group Art Unit	
			2838	
			Examiner Name	
			To be determined	
Sheet 2 of 6			Attorney Docket Number	
			054821-0865	

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Examiner  
Signature

Date  
Considered

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				<b>Examiner Name</b>	To be determined
<b>Sheet</b>	3	<b>of</b>	6	<b>Attorney Docket Number</b>	054821-0865

U.S. PATENT DOCUMENTS					
	U.S. Patent Document				
	A88	5,032,825		Kuznicki	07-16-1991
	A89	5,002,840		Klebenow et al.	03-26-1991
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A106	WO	03/001224	A1	Johnson Controls Technology	01-03-2003		
	A107	DE	699 00 638	T2	Alvarez	08-22-2002		
	A108	DE	100 21 161	A1	Kaiser	10-31-2001		
	A109	DE	93 21 638	U1	Champlin	08-30-2001		
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	A111	EP	1 116 958	A2	VB Autobatterie GmbH	07-18-2001		
	A112	DE	199 52 693	A1	Akkumulatorenfabrik Moll GmbH & Co.	05-23-2001		
	A113	DE	199 60 761	C1	Schöner et al.	05-23-2001		
	A114	WO	01 15023		Motorola, Inc.	03-01-2001		
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	A118	DE	197 50 309	A1	VB Autobatterie GmbH	05-20-1999		
	A119	WO	99 17128		Siemens Automotive S.A.	04-08-1999		
	A120	WO	97/15839		Globe-Union, Inc.	05-01-1997		
	A121	DE	195 43 874		Yazaki Corp.	05-30-1996		
	A122	DE	195 40 827	A1	Mercedes-Benz Aktiengesellschaft	05-23-1996		

<b>Examiner Signature</b>	<b>Date Considered</b>
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A123	DE	689 24 169	T2	Alliedsignal, Inc.	03-21-1996		
	A124	DE	43 39 568		Robert Bosch GmbH	05-24-1995		
	A125	DE	44 14 134	A1	Dial Engineering AG	11-10-1994		
	A126	DE	38 82 374	T2	Ford-Werke AG	10-28-1993		
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	A128	DE	40 07 883	A1	Moto Meter AG	09-19-1991		
	A129	DE	39 01 680	A1	Doduco GmbH et al.	03-22-1990		
	A130	DE	38 08 559	A1	Hella KG Hueck & Co.	09-28-1989		
	A131	DE	37 12 629	C2	Hitachi, Ltd.	10-15-1987		
	A132	DE	33 34 128	A1	Licentia Patent-Verwaltungs-GmbH	04-04-1985		
	A133	DE	25 11 426	A1	Illinois Tool Works, Inc.	09-25-1975		
	A134	DE	2 242 510	C3	Bader	04-04-1974		
	A135	DE	22 42 410		Kimura et al.	03-22-1973		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>
	A136	Intelec '88 – Tenth International communications Energy Conference, "A look at the Impedance of a Cell – S.L. DeBardelaben, New York Telephone Company," bearing a designation "October 30-November 2, 1988." (6 sheets)			
	A137	Battery Alert, Ltd., "The Easy-to-Install Battery Deterioration Warning Device", 12 Volt Model (BA101) Advertisement (2 sheets)			
	A138	Journal of Applied Electrochemistry, Volume 10 Number 1, January 1980 – The Impedance of Electrical Storage Cells – N.A. Hampson, s.A.G.R. Karunathilaka, Department of Chemistry, R. Leek, Department of Electronic and Electrical Engineering, University of Technology, Loughborough, Liecestershire, UK (11 sheets).			
	A139	Battery Evaluation Reports, s.e. Ross Laboratories, Inc., April 1999 (1 page)			
	A140	HSR-003 Application Notes, Hermetic Switch, Inc., Highway 92, Post Office Box 2220, Chickasha, OK 73023, <a href="http://www.hermeticswitch.com/RS_frm.htm">http://www.hermeticswitch.com/RS_frm.htm</a> , available at least by 01/06/03 (1 page)			
	A141	How It Works: Reed Switch Motor, <a href="http://members.tripod.com/simplemotor/rsmotor.htm">http://members.tripod.com/simplemotor/rsmotor.htm</a> , available at least by 01/06/03, 4 pages.			
	A142	Reed Relay Technical & Applications Information, COTO Technology, 55 Dupont Drive, Providence, RI, pgs. <a href="http://www.cotorelay.com/ReedTech.pdf">http://www.cotorelay.com/ReedTech.pdf</a> , available at least by 01/06/03; 37-43.			

Examiner Signature	Date Considered	
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>6</sup>
	A143	Willibert Schleuter, <u>Das elektrische Ersatzschaltbild des Bleiakkumulators unter Berücksichtigung erzwungener Elektrolytströmung</u> , etz Archiv, Vol.4 (1982), Issue 7, pages 213 -218		
	A144	Lürkens et al., <u>Ladezustandsschätzuntt von Bleibatterien mit Hilfe des Kalman-Filters</u> , etz Archiv, Vol. 8 (1986), Issue 7, pages 231 -236		
	A145	BROOKE, L., "Resin Keeps Batteries Cool", A1 Inside Magazine, November, 1998, pg. 55		
	A146	HOOVER, J., "Failure Modes of Batteries Removed from Service", A Presentation at the 107 <sup>th</sup> Convention of Battery Council International, April 30-May 3, 1995, Page 62		
	A147	STAN GIBILISCO and NEIL SCLATER, Co-Editors-in-Chief, "Rectifier Bridge," Encyclopedia of Electronics, 2 <sup>nd</sup> Edition, TAB Professional and Reference Books, 1996, pgs. 708-711.		
	A148	LEHMAN, A., "Electrical Battery Model For Leo Application Based on Absolute Instantaneous State of Charge," Proceedings of the European Space Power Conference held in Madrid, Spain, October 2-6, 1989, ESA Publications, NL, Vol. 1, pages 173-178.		
	A149	ROBBINS, TIM & HAWKINS, JOHN, "Battery Model For Over-Current Protection Simulation of DC Distribution Systems," Telecommunications Energy Conference, 1994, Intelec '94, 16 <sup>th</sup> International Vancouver, BC, Canada October 30-November 3, 1994, New York, NY, IEEE, pages 307-314 XP001036407 ISBN: 0-7803-2034-4.		
	A150	MAYER, D. et al., "Modelling and Analysis of Lead Acid Battery Operation," Ecole des Mines de Paris, XP010092137, pages 1-3.		
	A151	MAURACHER, P. & KARDEN, E., "Dynamic Modelling of Lead/Acid Batteries Using Impedance Spectroscopy for Parameter Identification," Journal of Power Sources, Elsevier Sequoia S.A., Lausanne, Ch., Vol. 67 (1997) No. 1-2, pages 69-84, XP004095174 ISSN: 0378-7753, pg. 70, line 11; page 82, line 5, figures 2, 3, 12.		
	A152	BAERT, D & VERVAET, A., "Lead-Acid Battery Model for the Derivation of Peukert's Law," Electrochimica Acta, Elsevier Science Publishers, Barking, GB, Vol. 44, No. 20, pages 3491-3504 XP004168624 ISSN: 0013-4686.		

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				Application Number	10/649,960
				Filing Date	8/26/2003
				First Named Inventor	Ingo Koch
				Group Art Unit	2838
				Examiner Name	To be determined
Sheet	6	of	6	Attorney Docket Number	054821-0865

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	A153	International Search Report for PCT/US02/19760 (international filing date 06/21/2002), date of mailing 10/10/2002.		
	A154	Conference Proceedings, Intelec '86 - International Telecommunications Energy Conference, Determining the End of Battery Life - Sheldon DeBardelaben, New York Telephone Company, bearing a designation "October 19-22, 1986." (6 sheets)		
	A155	Bosch and the New E-Class, Electronic Battery Management System, Focus on Electronics, November 2002 (1 sheet)		
	A156	Forecast Review, The Battery Man, November, 1996 Page. 21		
	A157	OnGuard™ XT Battery State-of-Health Monitor, 2003 Midtronics, Inc. P/N 156-983A (2 sheets)		

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